

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P652571

Luminaire Tested: **GALN-SA8B-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25557.1 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

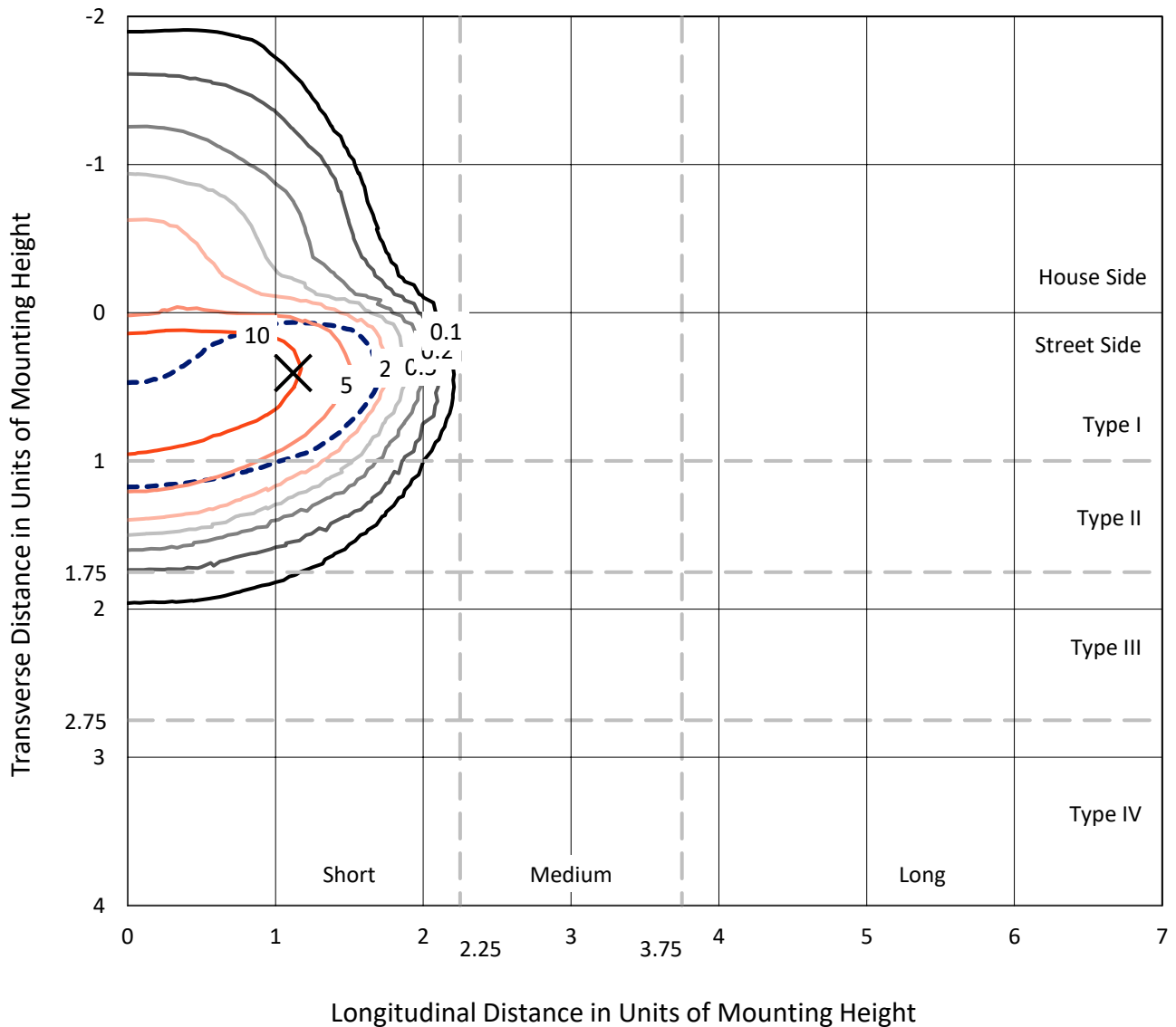
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

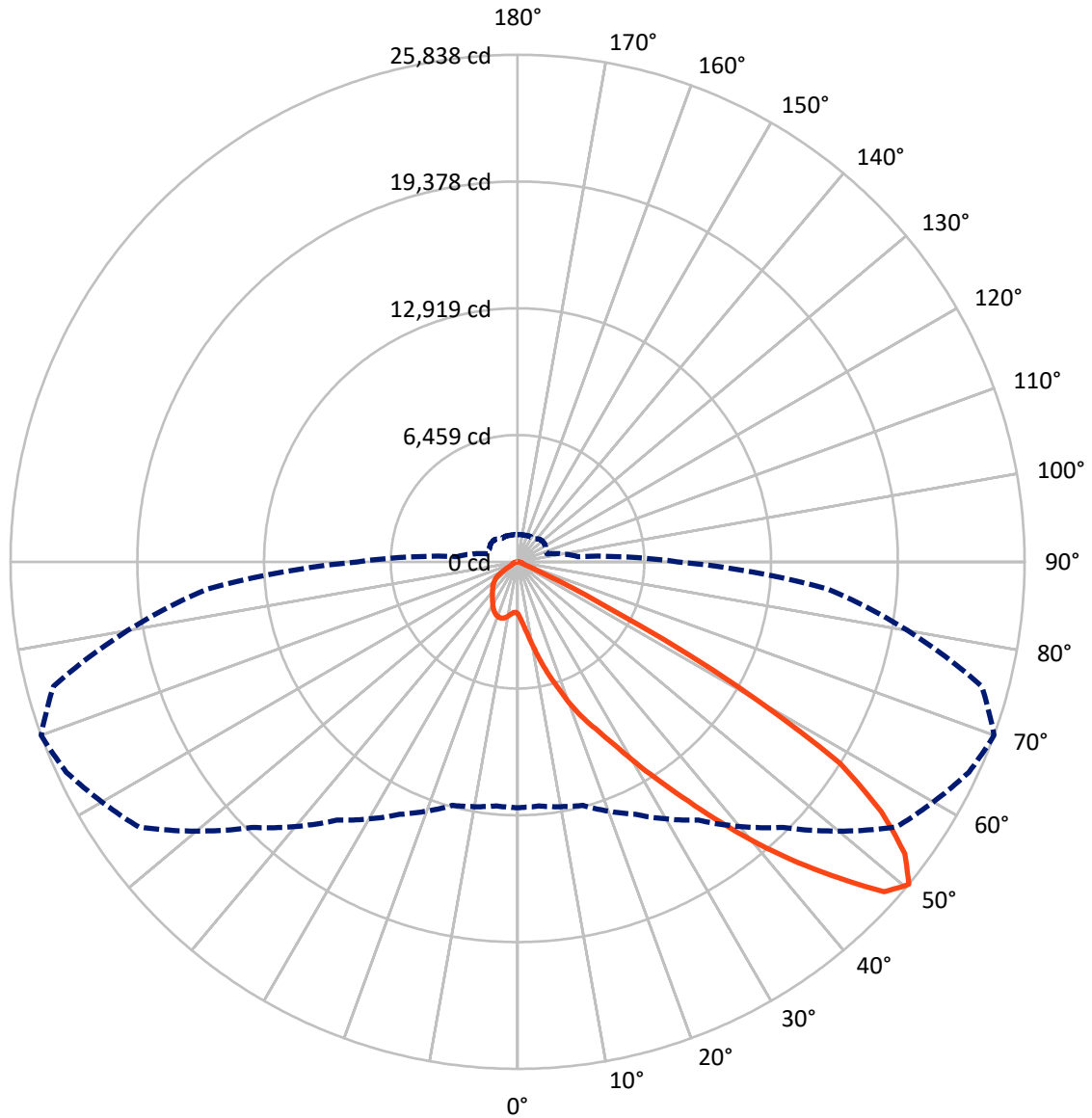
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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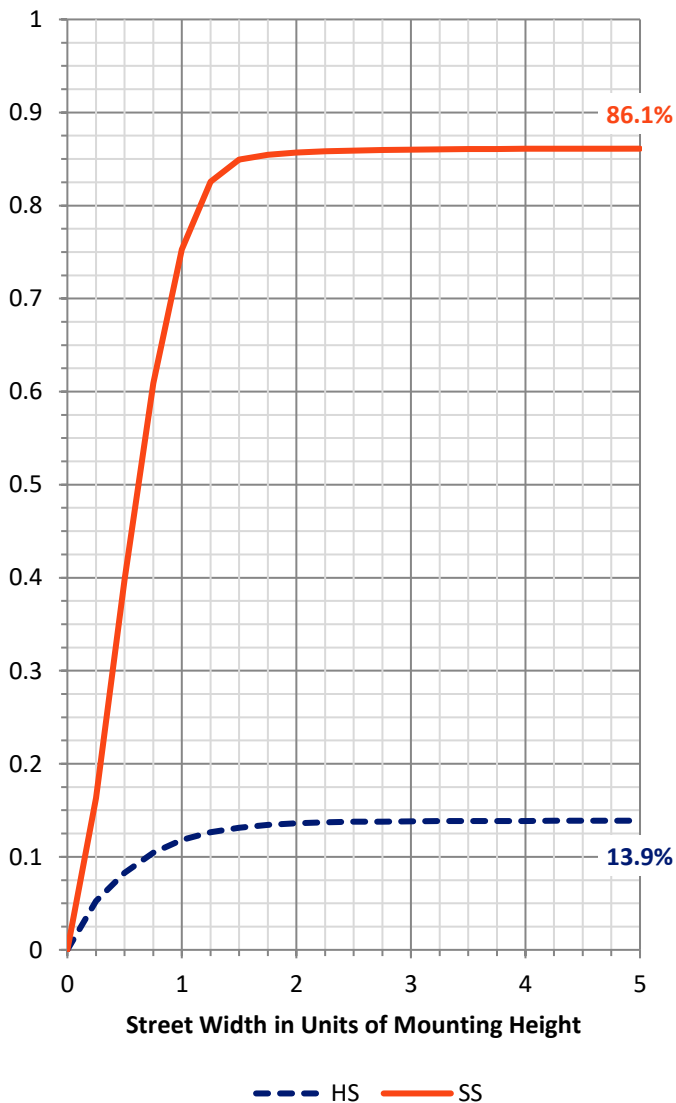
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3569.2	0.0	3569.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21987.9	0.0	21987.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	25557.1	0.0	25557.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.2	1.3
10°-20°	1489.0	5.8
20°-30°	3123.7	12.2
30°-40°	5384.3	21.1
40°-50°	7869.1	30.8
50°-60°	6128.7	24.0
60°-70°	1038.4	4.1
70°-80°	142.7	0.6
80°-90°	37.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25557.1	100.0
0°-180°	25557.1	100.0



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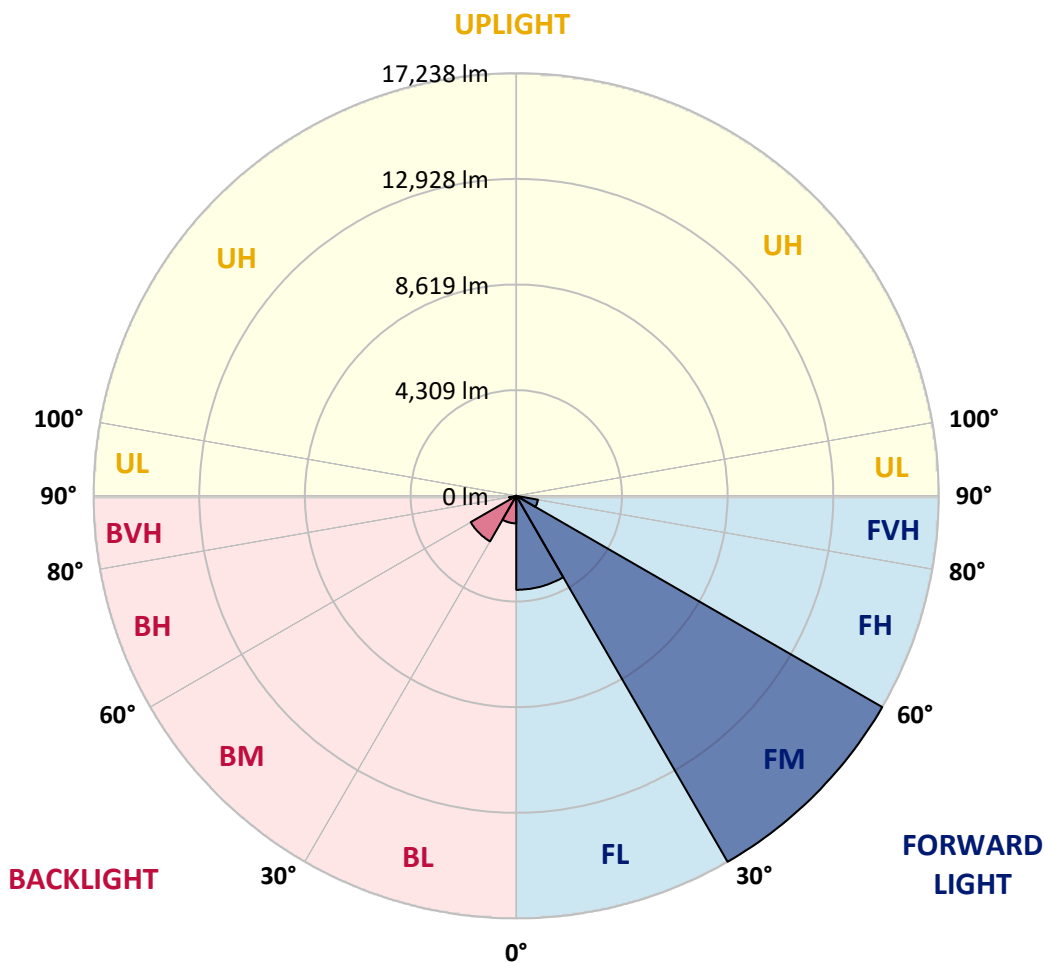
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3833.9	15.0			
FM (30°-60°)	17237.9	67.4			
FH (60°-80°)	899.1	3.5			G1/1800
FVH (80°-90°)	17.1	0.1			G1/100
BL (0°-30°)	1123.2	4.4	B3/2500		
BM (30°-60°)	2144.3	8.4	B2/2500		
BH (60°-80°)	281.9	1.1	B1/500		G1/500
BVH (80°-90°)	19.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2
2.5°	3466.6	3441.4	3386.8	3285.9	3243.9	3143.1	3084.2	2970.7	2899.3	2819.5	2731.2
5°	4882.7	4752.4	4672.5	4559.1	4227.1	4021.2	3680.9	3391.0	3256.5	3109.4	2907.8
7.5°	6344.9	6260.9	6151.7	5907.9	5681.0	5252.4	4668.3	4029.7	3756.5	3504.4	3105.2
10°	7555.0	7319.7	7307.2	7126.5	6878.5	6365.9	5664.2	4870.1	4382.6	4012.8	3386.8
12.5°	8399.7	8185.4	8282.0	8261.0	8029.9	7559.2	6748.3	5697.9	5189.4	4613.7	3676.7
15°	9168.6	9080.4	9050.9	9025.8	8933.3	8584.5	7857.6	6706.3	5970.9	5277.6	4004.4
17.5°	9920.8	9693.9	9803.1	9824.1	9815.7	9500.6	8819.8	7664.3	6798.7	5979.3	4349.0
20°	10588.9	10609.9	10462.8	10433.4	10408.2	10395.6	9731.7	8613.9	7815.6	6714.7	4798.6
22.5°	11446.1	11299.0	11429.3	11345.3	11181.3	11080.5	10572.0	9454.4	8698.0	7601.3	5256.6
25°	12458.7	12576.4	12269.6	12236.0	12055.3	11706.6	11248.5	10395.6	9546.8	8424.9	5752.4
27.5°	13706.7	13500.8	13420.9	13236.1	12908.3	12761.2	12223.4	11366.2	10572.0	9290.4	6231.5
30°	14778.2	14723.6	14324.4	14105.9	13820.2	13815.9	13063.8	12681.4	11908.3	10647.7	6891.2
32.5°	15652.2	15412.7	15265.6	15114.4	14883.3	14946.3	14311.8	14110.1	13332.7	11908.3	7668.5
35°	16236.3	16064.0	15975.7	15744.6	15677.4	15958.9	15694.2	15610.1	14971.5	13681.5	8580.4
37.5°	16421.1	16475.8	16459.0	16169.1	16311.9	17072.5	17412.8	17194.3	16858.2	15551.4	9567.8
40°	16585.0	16622.9	16538.8	16879.1	17286.8	18152.3	19383.5	19022.2	18896.1	17446.5	10941.8
42.5°	16677.5	16648.0	16648.0	17236.3	17854.0	19593.6	21287.0	21047.5	20950.8	19463.3	12530.1
45°	16278.3	15992.5	16299.3	17097.7	18341.5	20303.8	22808.1	23140.0	23001.4	21862.6	14387.4
47.5°	14786.6	14963.1	15135.4	16202.6	17749.0	20085.3	23740.9	24871.2	25127.6	23879.6	15606.0
50°	12530.1	12492.4	12849.5	14194.1	16072.4	19144.0	23560.2	25371.3	25837.7	24484.6	15862.3
52.5°	9114.0	9391.3	9777.9	11114.2	13341.1	16706.9	21228.2	24081.3	24703.2	23740.9	15694.2
55°	5307.0	5000.3	5870.1	7000.4	9101.4	12601.6	17946.4	21345.8	22497.2	22387.9	14845.4
57.5°	2126.2	2058.9	2357.3	3176.6	4748.2	7811.4	13051.2	17538.9	19383.5	20505.4	13047.0
60°	932.8	911.8	1071.5	1294.2	1941.3	3601.1	7139.1	10908.2	12832.7	14328.6	8979.5
62.5°	672.3	663.9	743.8	823.6	1025.3	1567.3	3000.2	4395.2	5479.3	6618.1	4021.2
65°	542.0	563.0	617.7	659.7	756.3	869.8	1058.9	1222.7	1500.1	1554.8	886.6
67.5°	441.2	458.0	508.5	554.6	571.5	470.6	487.4	428.6	428.6	382.4	306.7
70°	323.5	327.7	386.6	441.2	353.0	189.1	331.9	331.9	298.3	285.8	260.5
72.5°	239.5	243.7	289.9	273.2	138.7	117.7	243.7	269.0	243.7	231.1	210.1
75°	176.4	180.6	151.3	63.0	58.8	75.6	142.9	184.9	176.4	172.3	159.7
77.5°	33.6	25.2	21.0	29.4	42.0	63.0	92.4	113.5	117.7	126.1	117.7
80°	4.2	4.2	12.6	25.2	46.3	67.2	96.6	109.2	113.5	117.7	109.2
82.5°	0.0	4.2	12.6	25.2	46.3	63.0	84.0	96.6	105.0	109.2	105.0
85°	0.0	4.2	8.4	21.0	37.8	46.3	42.0	29.4	25.2	29.4	21.0
87.5°	0.0	0.0	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2	2647.2
2.5°	2680.9	2664.0	2605.2	2542.2	2487.5	2512.7	2487.5	2466.6	2475.0	2466.6	2458.2
5°	2827.9	2752.3	2626.2	2571.6	2525.4	2521.1	2508.5	2504.3	2508.5	2508.5	2470.8
7.5°	2966.5	2844.7	2710.2	2651.4	2596.8	2601.0	2571.6	2571.6	2567.4	2546.4	2538.0
10°	3176.6	3012.8	2840.5	2735.4	2668.2	2655.6	2626.2	2596.8	2596.8	2596.8	2554.8
12.5°	3407.7	3201.9	2966.5	2844.7	2764.9	2701.9	2655.6	2647.2	2601.0	2592.6	2571.6
15°	3609.5	3348.9	3050.6	2882.5	2781.7	2697.7	2626.2	2580.0	2559.0	2546.4	2529.6
17.5°	3807.0	3475.0	3096.8	2882.5	2773.3	2676.7	2601.0	2559.0	2508.5	2516.9	2483.3
20°	4071.7	3609.5	3109.4	2827.9	2693.5	2601.0	2500.1	2479.1	2449.7	2424.5	2432.9
22.5°	4328.0	3706.1	3071.6	2760.7	2567.4	2458.2	2407.7	2382.5	2369.9	2348.9	2319.5
25°	4559.1	3811.2	3012.8	2638.8	2432.9	2353.1	2306.9	2302.7	2273.2	2273.2	2218.6
27.5°	4794.4	3849.0	2912.0	2495.9	2315.3	2269.0	2248.0	2239.7	2227.1	2197.6	2159.8
30°	5063.3	3861.5	2764.9	2348.9	2210.2	2159.8	2189.2	2210.2	2155.6	2101.0	2117.8
32.5°	5286.0	3832.2	2588.4	2210.2	2134.5	2109.4	2168.2	2189.2	2126.2	2067.3	2037.9
35°	5555.0	3760.7	2416.1	2101.0	2058.9	2109.4	2159.8	2159.8	2033.7	1962.3	1945.5
37.5°	5962.5	3680.9	2256.4	2008.6	1979.1	2084.2	2151.4	2105.2	1907.6	1819.4	1798.4
40°	6399.5	3630.4	2101.0	1916.1	1937.1	2042.1	2080.0	1937.1	1735.4	1680.7	1664.0
42.5°	7034.0	3529.6	1962.3	1836.2	1899.3	1983.3	1983.3	1727.0	1651.4	1622.0	1617.7
45°	7824.0	3458.2	1840.4	1769.0	1844.6	1865.7	1798.4	1617.7	1563.1	1554.8	1558.9
47.5°	8210.6	3319.5	1714.4	1689.1	1743.8	1748.0	1571.5	1529.5	1483.3	1470.7	1462.2
50°	8151.7	3071.6	1550.6	1584.1	1659.8	1617.7	1432.9	1441.2	1399.3	1395.1	1374.0
52.5°	7740.0	2680.9	1386.6	1466.5	1550.6	1428.7	1319.4	1311.0	1311.0	1256.4	1235.3
55°	6861.7	2159.8	1189.2	1290.0	1390.8	1201.8	1172.4	1163.9	1142.9	1092.5	1079.9
57.5°	5433.1	1584.1	895.0	1004.2	1180.8	1021.1	1016.9	979.1	924.4	886.6	886.6
60°	3231.3	911.8	563.0	613.5	781.5	827.8	920.2	903.4	811.0	752.1	735.4
62.5°	1474.9	470.6	357.2	365.6	420.2	537.8	722.8	836.2	705.9	605.1	596.7
65°	495.9	348.8	294.1	281.6	289.9	323.5	432.8	592.5	563.0	466.4	449.6
67.5°	302.5	310.9	277.4	256.3	256.3	252.1	247.9	269.0	331.9	323.5	327.7
70°	260.5	285.8	256.3	231.1	222.7	210.1	176.4	147.1	126.1	147.1	155.5
72.5°	210.1	226.9	218.5	197.5	176.4	159.7	126.1	96.6	71.4	63.0	63.0
75°	155.5	168.1	176.4	151.3	134.5	113.5	92.4	63.0	37.8	25.2	25.2
77.5°	113.5	126.1	130.3	117.7	100.8	79.8	58.8	42.0	21.0	8.4	8.4
80°	96.6	113.5	126.1	117.7	105.0	75.6	54.7	29.4	16.8	4.2	4.2
82.5°	92.4	113.5	126.1	113.5	100.8	71.4	54.7	33.6	12.6	4.2	4.2
85°	21.0	29.4	37.8	46.3	54.7	54.7	42.0	25.2	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)